

Comparisons of Job Characteristics

Focus Occupation: [Electricians \(47-2111\)](#)

Associated Occupation: [Control and Valve Installers and Repairers, Except Mechanical Door \(49-9012\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: Electricians (47-2111)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	13.0	16.5	>> Current knowledge level is likely more than sufficient
Public Safety and Security	6.9	11.1	7.6	<< Extensive education and/or training may be required
Transportation	4.6	8.0	4.9	<< Extensive education and/or training may be required
Design	5.2	7.4	13.4	>> Current knowledge level is likely more than sufficient
Physics	4.3	7.0	10.9	>> Current knowledge level is likely more than sufficient
Telecommunications	3.9	5.8	10.4	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: Electricians (47-2111)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	9.6	10.5	0 Current skill level may be sufficient
Equipment Maintenance	3.5	8.4	10.3	> Skill level is likely sufficient
Operation and Control	5.4	8.3	8.8	0 Current skill level may be sufficient
Quality Control Analysis	5.9	8.3	11.0	>> Skill level is likely more than sufficient
Repairing	3.4	8.1	11.6	>> Skill level is likely more than sufficient

Troubleshooting	4.5	7.9	12.3	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	6.2	8.4	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 88			
Focus Occupation: Electricians (47-2111)					
Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	10.8	12.2	>	Current ability level is likely sufficient
Near Vision	11.1	10.6	12.3	>	Current ability level is likely sufficient
Oral Expression	12.4	10.6	11.7	>	Current ability level is likely sufficient
Extent Flexibility	4.8	10.1	10.4	0	Current ability level may be sufficient
Problem Sensitivity	11.1	9.8	12.7	>>	Current ability level is likely more than sufficient
Arm-Hand Steadiness	6.8	9.7	11.0	>	Current ability level is likely sufficient
Information Ordering	9.9	9.6	11.6	>	Current ability level is likely sufficient
Multilimb Coordination	6.0	9.4	11.4	>	Current ability level is likely sufficient
Manual Dexterity	6.5	9.2	11.6	>	Current ability level is likely sufficient
Gross Body Equilibrium	3.2	6.8	8.2	>	Current ability level is likely sufficient
Glare Sensitivity	2.6	6.1	5.9	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 86
Focus Occupation: Electricians (47-2111) Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electrical fixtures or components	71	
Install or replace meters, regulators, or related measuring or control devices	66	
Install/connect electrical equipment to power circuit	57	
Install/string electrical or electronic cable or wiring	76	
Move or fit heavy objects	8	
Order or purchase supplies, materials, or equipment	35	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Read blueprints	10	

Read technical drawings	7
Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Splice electric cable	85
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand service or repair manuals	40
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 92

Focus Occupation: Electricians (47-2111)

Associated Occupation: Control and Valve Installers and Repairers, Except Mechanical Door (49-9012)

Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Compressors	9
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Data management and query software	1
Electrical measuring and testing equipment	7
Fastener setting tools	12
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Machine tools	7
Measuring and layout tools	3
Personal communication devices	2
Power tools	2
Pressure measuring and control instruments	10
Pulling tools	31

Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.